KDHE PUBLIC WATER SUPPLY 2008 CAPACITY DEVELOPMENT SURVEY

Public water supply systems face many challenges in achieving the goal of providing safe drinking water to their customers. Aging infrastructure, more stringent drinking water standards, and the desire to keep water rates to a minimum are factors that public water supply managers must resolve if they are to be successful. One goal of the Kansas Capacity Development Strategy for Public Water Supply Systems is to identify systems most in need of assistance to improve their technical, managerial, and financial capabilities. This Capacity Survey is one component of the Strategy and will be used to help the State and other public water supply assistance providers develop programs to provide assistance to water utilities, and to provide a "capacity" benchmark which will be used to measure improvements in water system capacity. The Survey should also be useful as a tool to water system managers to measure their strengths and identify their weaknesses.

In Addition, the Kansas Water Plan encourages public water supply systems to achieve capacity. One component of the Kansas Water Plan is for all public water supply systems to develop and maintain the technical, managerial, and financial capability, or the "capacity" to comply with drinking water standards by the year 2010.

The survey questionnaire is organized by the three areas comprising capacity development.

- 1. **Technical Capacity** requests information concerning adequacy of the water source or water purchase contracts and general information about the physical infrastructure aspects of the utility.
- 2. **Management Capacity** considers the accountability of the governing body or owner, planning, organization, communication and linkages with mentor organizations such as the League of Kansas Municipalities, Kansas Rural Water Association, American Water Works Association or others.
- 3. **Financial Capacity** considers the revenue sufficiency, including income, expense, debt service coverage ratios, capital improvement planning, general fiscal management and overall credit worthiness.

If you have questions or need assistance completing this survey please contact:

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				Do not write in this	s space. For KDHE Use only.
				KDHE ID	Fed ID
Name	of System		L		
City_		County			
Name	of Person Completing	Survey]	Phone	
Water	System email address				
		TECHNICA	AL CAPACITY		
adequa	cy, infrastructure adequ		nd/or source water	intakes, treatme	not limited to the source water nt, storage, and distribution), and
Source	•				
1.	What is your system's	raw water source and/or	who do you purc	hase water from	(check and fill in all that apply)?
	☐ Surface: Lake Name Stream Name		☐ Grou Nbr. Of	ınd: f Wells Used	
	☐ Purchased From:		□ Don	't know	
2.	Does your system have	e an emergency or supple	emental water sup	ply?	
	□ Yes	□ No	☐ Don't know		
3.	If question 2 is yes, plo	ease identify emergency	source.		
	☐ Back-up Wells	☐ Connection with an	other system (nan	ne)	
	☐ Back-up Surface So	ource (stream or lake nan	ne)		
	☐ Other (specify)				
4.		rom or treated by anothe ur system's purchase con		a drought or othe	r "cut-off" clause limiting the
	□ Yes	□ No	☐ Don't know	□ No p	urchased water
5.		ed, does your water system of Water Resources?	em have sufficient	water rights issu	ned from the Kansas Department

☐ Don't know

 \square No water rights, purchase water only

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 \square No

☐ Yes

6.	How many times in the previous 3 years (2005, 2006 or 2007) did your system impose water use restrictions and what was the total length of time restrictions were imposed?								
	☐ None ☐ 3 or more	□ Once □ Don't know	☐ Twice						
	Total Time:	☐ Less than 1 month	\Box 1 to 3 months	\square 3 to 6 mont	hs				
	If restrictions w	If restrictions were imposed, please indicate the year(s) and if they were mandatory or voluntary							
	☐ <u>2005</u> ☐ Voluntary ☐ Mandatory	□ <u>2006</u> □ Voluntary □ Mandatory	□ <u>2007</u> □ Voluntary □ Mandatory						
7.		If restrictions were imposed in question 6, was this restriction drought related? If no restrictions were imposed proceed to question 9.							
	□ Yes	\square No							
8.	If restrictions w	If restrictions were imposed in question 6, was this restriction due to: (please check all that apply).							
	☐ Water Right	☐ Treatment Capacity ☐ Water Right Limitations		orage Capacity	☐ Raw Water Supply Source ☐ Other (Specify)				
9.		☐ Minimum Desirable Streamflow ☐ Water Purchase Contract If yes in question 6, has the cause for restriction been corrected?							
	□ Yes	□ No	□ Don't kno						
	Please Explain	Yes or No Answer:							
10.	Does your syste	em have an approved Sou	urce Water Protection	Plan or Wellhead	Protection Plan?				
	□ Yes	□ No	□ Don't kno	w 🗆 Pur	chase Treated Water				
	If yes, has your	If yes, has your plan been reviewed and updated within the last 3 years?							
	□ Yes	\square No	□ Don't kno	w					
11.	Has your system use prior to 200		Vater Assessment to in	clude any new or	reactivated wells that were not in				
	□ Yes	\square No	□ Don't kno	w □ Pur	chase Treated Water				

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12.	Is your system's source capacity higher than your peak day demand by a margin of 50%?							
	☐ Yes	□ No	☐ Don't know	☐ Purchase Treated Water				
13.	How many times in th problems?	ne previous 3 years (200	5, 2006 or 2007) has yo	our system experienced taste and odor				
	□ None (If none go to	□ None (If none go to question 16)						
	2005 ☐ Once ☐ Twice ☐ 3 or More	2006 ☐ Once ☐ Twice ☐ 3 or More	2007 ☐ Once ☐ Twice ☐ 3 or More					
14.	What is the average	length of time your sy	stem's taste and odor	r problems persist?				
	☐ Less than 1 week	\Box 1 to 2 weeks	☐ 2 to 4 weeks	☐ More than 4 weeks				
15.				perience? Check all that apply and circle the tely severe, 3 = least severe).				
	\square Rotten Egg 1 2	2 3	nlorine 1 2 3	☐ Grassy 1 2 3 ☐ Metallic/Iron 1 2 3				
Treat	ment							
16.	Did your system have	any primary drinking w	rater standard violations	s in 2007?				
	□ Don't know							
17.	Did your system have any monitoring, reporting or other violations in 2007?							
	□ Don't know							

18.	8. What is your system's daily average water production expressed as a percentage of peak production expressed as a percentage of peak production?					
	☐ Less than 50% ☐ Purchase Treated W	Vater	□ 50% - 75% □ Don't know		☐ Greater than 75%	
19.	What is your system's average daily production in Gallons per Day (GPD)?					
	GP	D	□ Don't Know		☐ Purchase Treated Water	
20.	Does your system have	e emerge	ency/standby elect	trical se	rvice (production and/or distribution)?	
	□ Yes	□ No		□ Don	't know	
21.	Can your system main	tain full	pumping and pro	duction	operations during a 100 year flood event?	
	☐ Yes	□ No		□ Don	't know	
22.	If your system has a subeen upgraded to meet			nt consti	ructed more than 20 years ago, have treatment processes	
	☐ Yes ☐ Does not apply (gro	☐ No ound wate	er treatment, purc		't know ated water)	
Distrib	oution					
23.	Does your system's or	peration p	pressure for any c	ustomer	service connection fall below 20 psi?	
	□ Yes	□ No		□ Don	't know	
24.	Does your system have	e at least	24 hours of finish	hed wate	er supply storage at average daily use?	
	□ Yes	□ No		□ Don	't know	
25.	Have your system's w	ater stora	nge facilities been	inspect	red during the past 24 months?	
	□ Yes	□ No		□ Don	't know	
26.	What is your system's unaccounted for water loss as a percentage of total production or purchase?					
	☐ Less than 15% ☐ Don't know	□ Bet	ween 15% and 29	9%	☐ More than 29%	
27.	Does your system have	e an activ	ve cross-connection	on contr	rol program?	
	□ Yes	□ No		□ Don	't know	
28.	Does your system have	e accurat	e maps of your di	istributio	on system?	
	□ Yes	□ No		□ Don	't know	

29.		Does your system's distribution system overlap or intertwine with another public water supply distribution system with which it is not interconnected?				
	□ Yes	□ No	☐ Don't know			
		1	MANAGERIAL CAPACITY			
		ers to the management and organization, and o	structure of the water system, including but not limited to ownershieffective linkages.	p		
30.	What is your sy	estem's governance stru	acture?			
		d/council				
31.	•		r does it utilize industry related service organizations such as the Ka Rural Water Association or the American Water Works Association			
	□ Yes	□ No	□ Don't know			
32.		n's operators have appr nt classifications?	opriate levels of certification according to the Kansas Department of	f Health		
	□ Yes	□ No	□ Don't know			
	If No, does your system have a KDHE approved Operator In Training (OIT)?					
	□ Yes	\square No	□ Don't know			
33.	Does your syste	em have written person	nel policies and job descriptions signed by the employees?			
	☐ Yes ☐ No Employe	□ No es, Volunteer Labor	□ No Employees, Contract Labor□ Don't know			
34.	Does your syste	em provide benefits to	employees (retirement, insurance, etc.)?			
	☐ Yes ☐ No Employe	□ No es, Volunteer Labor	□ No Employees, Contract labor□ Don't know			
35.	Does your syste	em have formal policie	s for: payments/collections, main extensions/connections, etc.?			
	□ Yes	□ No	□ Don't know			
36.	Does the govern	ning body review a mo	nthly summary of revenues and expenses of the utility system?			
	□ Yes	□ No	☐ Don't know			

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37.	Does your system have a formal plan for operations and maintenance (line flushing, pumps, meters, storage tank etc.)?			
	□ Yes	□ No	□ Don't know	
38.	Does your system have Environment?	an emergency or contin	gency plan approved by	the Kansas Department of Health and
	☐ Yes	□ No	☐ Don't know	
39.	Does your emergency J	plan coordinate with you	r county emergency plan	?
	□ Yes	□ No	□ Don't Know	☐ Don't Have Approved Plan
40.	•	a Water Conservation F the Kansas Water Office	* * * * * * * * * * * * * * * * * * *	sas Department of Agriculture, Division
	□ Yes	□ No	☐ Don't know	
41.	Has your system been obeen corrected?	cited for violations for ar	ny deficiencies on the mo	est recent sanitary survey, which have not
	□ Yes	□ No	☐ Don't know	
42.	Does your system have	a public information pro	ogram?	
	☐ Yes	□ No	☐ Don't know	
43.	Does your system have	a computerized record-	keeping system?	
	☐ Yes	□ No	☐ Don't know	
44.	Does the governing boo	dy approve expenses pric	or to payment being issue	ed?
	□ Yes	□ No	☐ Don't know	
45.	Are at least two signatu	ures required to purchase	goods and services over	\$100.00?
	□ Yes	□ No	☐ Don't know	
		FINAN	CIAL CAPACITY	
	allenge for most utility s al capacity.	systems is to operate like	a business. The following	ng questions will assist in evaluating the
46.	Does your water system	m income exceed operation	ng expenses (including de	ebt service)?
	□ Yes	□ No	□ Don't know	

47.	Does your system fund a depreciation/capital improvement account?				
	□ Yes	□ No	☐ Don't know		
48.	Does your syste 5 years?	em have a capital bu	dget or capital improvement plan tha	at projects future capital needs for at least	
	□ Yes	\square No	☐ Don't know		
49.	Does your syste	em have financial res	serves for emergencies?		
	□ Yes	\square No	☐ Don't know		
50.	Does your water	er utility support other	er enterprise funds or the general fun	d (cities)?	
	☐ Yes ☐ Does not app	□ No oly (rwd)	□ Don't know		
51.	Does your system require revenues from other enterprise funds or the general fund for normal operations?				
	□ Yes	\square No	☐ Don't know		
52.	Does your system develop and follow an annual budget that is approved by the governing body?				
	□ Yes	\square No	☐ Don't know		
53.	Does your syste	em have an audited f	inancial statement prepared by a cer	tified public accountant?	
	□ Yes	\square No	☐ Don't know		
54.	Has the auditor submitted a copy of their most recent peer review?				
	□ Yes	□ No	☐ Don't know		
55.	Are the audited financial statements prepared according to generally accepted accounting principals (GAAP)?				
	□ Yes	□ No	□ Don't know		
56.	Have your system's water rates been reviewed within the last 3 years?				
	□ Yes	\square No	☐ Don't know		
57.	Does your syste	em's current rate stru	acture produce income to cover: (che	eck all that apply)	
	☐ Current Exp		☐ Replacement Costs ☐ No	☐ Reserves ☐ Don't know	

58. Please complete the following table.							
		e for Residenti	al To	otal Cost			
Custon		11					
	y Minimum _	gallo	ons				
5,000 g	ganons gallons						
	gallons						
	gallons						
	gallons						
30,000	ganons						
59.	Please indica	te your type of i	rate.				
	☐ Flat Rate (Not Metered)	□ Block	Rate	☐ Increasing Blo	ock Rate	
	☐ Decreasing	g Block Rate	□ Don't		☐ Other		
60.		le number of ser			T	Т.	T
Year	Residential	Commercial	Industrial	Wholesale	Stock Water/ Pasture	Power Production	Total
2007							
2006							
2005							
61.	Did your system's governing body review this survey before returning it to the Kansas Department of Health and Environment?						
	□ Yes		бо	□ Don'	t know		
			FUTU	URE PLANNI	NG NEEDS		
						and managerial capac ture water supply dema	
62.	Is your system	m considering a	n additional o	r different wate	er supply source (raw or treated)? please	list.
	\square Yes, please list below \square No, not considering another source						
63.	If your syster	n is considering	additional so	ources, within w	vhat timeframe do	you anticipate activat	ion?
	☐ 5 Years or Less ☐ 6 to 10 Years ☐ 11 to 20 Years ☐ Don't Know						